

**LAB** Group Work Melting Ice**Question** Does the mass of ice change when it melts?**Procedure**

1. Use the balance to measure the mass of the plastic cup.  
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**Materials**

- plastic cup
- several ice cubes
- balance

2. Fill the cup with ice. Then measure the mass of the cup full of ice. Record your data.  
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3. Subtract the mass of the cup from the mass of the cup filled with ice. This is the mass of the ice alone. Record your data.  
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4. Place the cup in a warm place. Let the ice melt completely.

5. Measure the mass of the cup of water. Subtract the mass of the cup from the mass of the cup full of water. This is the mass of the water alone. Record your data.  
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**Analysis**

1. What change of state did you **observe** when the ice melted?  
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2. Compare the mass of the ice to the mass of the water.  
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3. Infer what happens to mass when matter changes state.  
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